PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

_	1 0 1				
To: E.I. DU PONT DE NEMOURS AND COMPANY Attn. Heiser, David E Legal Patent Records Center 4417 Lancaster Pike ATENTRECORDS CE Wilmington, Delaware 19805	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL NTESEARCHING AUTHORITY, OR THE DECLARATION				
4417 Lancaster PikepATENTRECOND	5				
Wilmington, Delaware 19805					
UNITED STATES OF AMERICA MAR 29 2005	(PCT Rule 44.1)				
TO BE REVIEW	Date of mailing 21/03/2005				
Applicant's or agent's file reference CL2244 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No.	International filing date				
PCT/US2004/034446	(day/month/year) 13/10/2004				
Applicant					
E.I. DUPONT DE NEMOURS AND COMPANY					
The applicant is hereby notified that the international search Authority have been established and are transmitted herewit.	report and the written opinion of the International Searching h.				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	s of the International Application (see Rule 46):				
When? The time limit for filing such amendments is norn					
Where? Directly to the International Bureau of WIPO, 34	chemin des Colombettes				
1211 Geneva 20, Switzerland, Fast For more detailed instructions, see the notes on the according to the second sec	scimile No.: (41–22) 740.14.35				
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the International Search	report will be established and that the declaration under ternational Searching Authority are transmitted herewith.				
	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders	·				
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the completion of the technical preparations for international publication.					
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.					
Within 19 months from the priority date, but only in respect of some examination must be filed if the applicant wishes to postpone the edate (in some Offices even later); otherwise, the applicant must, was acts for entry into the national phase before those designated Offices.	entry into the national phase until 30 months from the priority vithin 20 months from the priority date, perform the prescribed ces.				
In respect of other designated Offices, the time limit of 30 months months.	(or later) will apply even if no demand is filed within 19				
See the Annex to Form PCT/IB/301 and, for details about the appli Guide, Volume II, National Chapters and the WIPO Internet site.	icable time limits, Office by Office, see the PCT Applicant's				

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Véronique Baillou

REY NOTED

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed:

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - *Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.*
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220		
CL2244PCT	ACTION as we		ell as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)		
PCT/US2004/034446	13/10/2004		14/10/2003		
Applicant	13/10/2004		14/10/2003		
Applicant					
E.I. DUPONT DE NEMOURS AND	COMPANY				
B.I. Beleit BE WELLOOKS INC	COMPANI				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Sea unsmitted to the International Bureau	rching Auth	ority and is transmitted to the applicant		
This International Search Report consists	of a total of she	ets.			
X It is also accompanied by	a copy of each prior art document o	ited in this i	report.		
Basis of the report a. With regard to the language, the language in which it was filed, unlike the second	international search was carried out ess otherwise indicated under this it	on the basi em.	is of the international application in the		
The international this Authority (Rul	search was carried out on the basis e 23.1(b)).	of a transla	tion of the international application furnished to		
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed i	n the international application, see Box No. I.		
2. Certain claims were four	nd unsearchable (See Box II).				
3. Unity of invention is lack	king (see Box III).				
4. With regard to the title,					
X the text is approved as su	bmitted by the applicant.				
the text has been establish	ned by this Authority to read as follo	ws:			
		-			
5. With regard to the abstract,					
X the text is approved as su	omitted by the applicant				
the text has been establish	ned, according to Rule 38.2(b), by the	nis Authority	as it appears in Box No. IV. The applicant		
may, within one month fro	m the date of mailing of this internal	ional searc	h report, submit comments to this Authority.		
6. With regard to the drawings					
With regard to the drawings , a. the figure of the drawings to be published with the abstract is Figure No					
as suggested by the					
	Authority, because the applicant fa	iled to sugg	gest a figure.		
	Authority, because this figure bette				
b. X none of the figures is to be	published with the abstract.		. 1		

INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/034446

CLASSIFICATION OF SUBJECT MATTER PC 7 B01J23/86 B01J B01J37/03 C07C17/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J C07C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 2001/011061 A1 (SCOTT JOHN DAVID ET AL) 1 - 162 August 2001 (2001-08-02) paragraphs '0012! - '0016! paragraphs '0027! - '0029! paragraphs '0031! - '0033!; example 1 comparative example B claims 1-5, 16, 17EP 0 641 598 A (SHOWA DENKO KABUSHIKI X 1 - 16KAISHA; SHOWA DENKO KK) 8 March 1995 (1995-03-08) examples 1,5 claims 1-5,9-13figure 1 page 3, line 13 - line 51 page 6, line 54 - page 7, line 36 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 11 March 2005 21/03/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Holzwarth, A Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/034446

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		Tau
ategory °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	EP 1 038 858 A (DAIKIN INDUSTRIES, LIMITED) 27 September 2000 (2000-09-27) example 5		
	EP 0 957 074 A (ASAHI GLASS COMPANY LTD) 17 November 1999 (1999-11-17) examples 2,3		
	GB 1 225 324 A (AMERIPOL, INC.) 17 March 1971 (1971-03-17) example 9; table 4 examples		
			
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/034446

	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	2001011061	A1	02-08-2001	CA EP	2263711 0925112	A1	19-03-1998 30-06-1999
				WO JP	9810862 2001500059		19-03-1998 09-01-2001
EP	0641598	Α	08-03-1995	CA	2131361		08-03-1995
				CN	1105951		02-08-1995
				DE DE	69415748		18-02-1999
			•	EP	69415748 0641598	T2	19-08-1999 08-03-1995
				GR	3029365		28-05-1999
	•			JP	2996598		11-01-2000
				JP	8038904		13-02-1996
				ÜS	5494873		27-02-1996
EP	1038858	Α	27-09-2000	JP	3520900		19-04-2004
				JP	11171806		29-06-1999
:				EP	1038858		27-09-2000
				US	6433233		13-08-2002
			•	WO US	9931032		24-06-1999
			·		6503865 		07-01-2003
EP	0957074	Α	17-11-1999	DE	69811479		27-03-2003
				DE	69811479		20-11-2003
				EP	0957074		17-11-1999
	-			US	6172270		09-01-2001
	•		•	ES WO	2192768 9847841		16-10-2003 29-10-1998
···					904/041 		29-10-1996
GB	1225324	Α	17-03-1971	BE	733129		17-11-1969
				DE	1924163		03-06-1971
				ES	367183		01-04-1971
				FR	2014133		17-04-1970
			•	NL	137292		OF 11 10CC
				NL NL	6907583		25-11-1969
				US	7208525 3450787		25-08-1972 17-06-1969
				US	3450788		17-06-1969
				US	3450789		17-06-1969

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT		
see form PC	CT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file ref see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/US2004/034446	-	International filing date (d	l lay/month/year)	Priority date (day/month/year) 14.10.2003	
International Patent Classific B01J23/86, B01J37/03			and IPC		
Applicant E.I. DUPONT DE NEM	MOURS AND	COMPANY			
1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application □ Box No. VIII Certain observations on the international application □ Box No. VIII Certain observations on the international application □ FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
Name and mailing address	of the ISA		Authorized Officer		



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Holzwarth, A

Telephone No. +49 89 2399-7269





WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/034446

_							
_	Вс	ox N	o. I Basis of the opinion				
1.	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 						
		laı	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).				
2.	Wi ne	ith re	egard to any nucleotide and/or amino acid sequence disclosed in the international application and eary to the claimed invention, this opinion has been established on the basis of:				
	а.	type	of material:				
			a sequence listing				
			table(s) related to the sequence listing				
	b. format of material:						
			in written format				
			in computer readable form				
	c . 1	time	of filing/furnishing:				
			contained in the international application as filed.				
			filed together with the international application in computer readable form.				
			furnished subsequently to this Authority for the purposes of search.				
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.				
1	٨٨	ditio	nal commente:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/034446

		·							
	Box	k No. II	Priority						
1. ☐ The following document has not been furnished:					d:				
			copy of the earlier	applicatio	n whose p	riority has been claimed (Rule 43bis.1 and 66.7(a)).			
-	•		translation of the	earlier appl	ication wh	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).			
		Conse	quently it has not b heless been establi	een possib shed on th	le to cons e assumpt	ider the validity of the priority claim. This opinion has tion that the relevant date is the claimed priority date.			
2.		☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.	⊠	It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
4.	Add	litional c	bservations, if nec	essarv:					
			,	, ,					
	Boy	No. V	Reserved state	ment und	or Pulo 43	Bbis.1(a)(i) with regard to novelty, inventive step or			
			applicability; citati	ions and e	explanatio	ons supporting such statement			
1.	Stat	ement		,					
	Nov	elty (N)		Yes:	Claims	2-5,7,9-14,16			
				No:	Claims	1,6,8,15			
	Inve	entive st	ep (IS)	Yes:	Claims				
				No:	Claims	2-5,7,9-14,16			
	Indu	ıstrial a _l	pplicability (IA)	Yes:	Claims	1-16			
				No:	Claims				
2.	Cita	tions ar	nd explanations						
	see	separa	te sheet			·			
		-							
	Par	No. VI	II Cortoin chas	estions are	Aba :				
	DUX	NO. VI	i Certain observ	ALIUNS ON	the interi	national application			

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A1-2001011061 D2: EP-A-0641598

- 1. The present application does not meet the requirements of Article 33 PCT, in the following respects:
- 1.1 D1 (paragraphs [0012]-[0016]; [0027]-[0029]; [0031]-[0033]; example 1, comparative example B; claims 1-5, 16, 17) discloses an alpha-chromium oxide containing fluorination catalyst (the catalyst is treated with a fluorinating agent), for changing the fluorine distribution in a halogenated hydrocarbon, prepared by a coprecipitation process according to claim 15 of the present application with ammonia as a precipitating agent, using a trivalent chromium salt and a soluble zinc salt. It is stated in D1 that the precipitate contains alpha-chromium oxide. In comparative example B it is shown that the content of crystalline alpha-chromium oxide depends on the calcination conditions. In example 1 the catalyst is calcined for 16 h at 425 ℃ and in comparative example B for 16h at 400 ℃. As the same preparation method is used in D1 as defined in claim 15, it must have the same result and hence the catalysts disclosed in D1 are also novelty destroying for claim 1 of the present application.

A similar argumentation applies to **D2** (examples 1,5; claims 1-5, 9-13; Fig. 1; page 3, lines 13-51; page 6, line 54 - page 7, line 36).

Therefore the subject matter of at least the claims 1, 6, 8 and 15 is not novel in view of D1 and D2 (Art. 33(2) PCT).

1.2 The example section of the application does not show any comparison to the prior art. Even if the subject matter of claims 1, 6, 8 and 15 was novel, no inventive step could be acknowledged, because no evidence for an advantage over the prior art could be found in the application.

Therefore the subject matter of at least the claims 1, 6, 8 and 15 does not involve an inventive step (Article 33(3) PCT).

- 1.3 As can deduced from the above points (1.1-1.2) at least the subject matter of the claims 1, 6, 8 and 15 is not novel and does not involve an inventive step (Art. 33(2) and 33(3) PCT) and therefore does not satisfy the requirements of Article 33 PCT.
 - **1.4** Dependent claims 2-5, 7, 9-14 and 16 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT with respect to novelty and/or inventive step, because said additional features are either disclosed in the prior art documents (see above) or are trivial or within the competence of a skilled person looking for alternative catalysts or processes.

Re Item VIII

Certain observations on the international application

- 1. The application does not meet the requirements of Article 6 PCT, because of the following reasons:
- **1.1** Claim 16 describes the formation of ZnCr₂O₄ by a "result to be achieved" type formation, which is not acceptable.

Therefore claim 16 is unclear.

1.2 Claim 15 describes a coprecipitation method for the preparation of a catalyst according to claim 1, without mentioning the calcination conditions which are essential to obtain the crystalline phases described in claim 1. The precipitation method is already disclosed in the prior art D1-D2 (see above). It is clear from the description (page 4, lines 18-20) that the catalyst needs to be calcined at temperatures above 400 ℃ or even above 500 ℃. These calcination conditions need to be included in claim 15.

Since independent claim 15 does not contain these features it does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.